

Fig. 2

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					context server table
	context server name	version	installation date	filename	request handler
401 Rps	gps		2/10/2000	gps.exe	(reference)
402	ips		2/21/2000	ips.exe	(reference)
400 /	402 - location region analysis	-	2/10/2000	l r a exe	(reference)
<u> </u>	1141	21H7	L413	۶ ۲ ۲۷	7/ 2 /

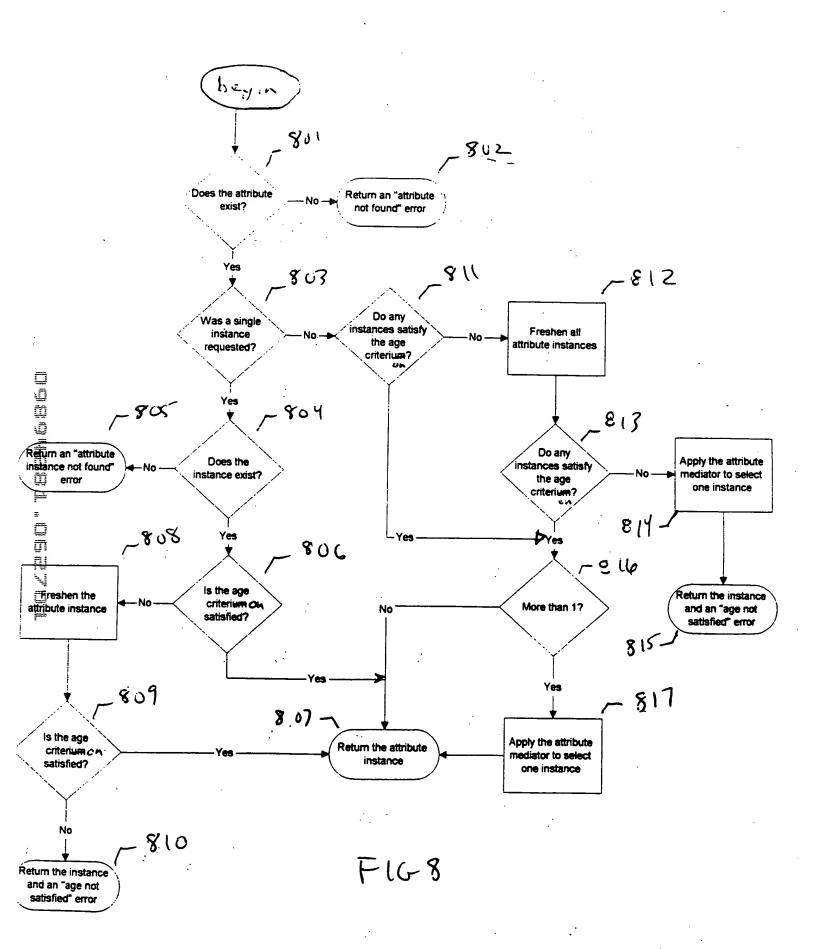
י ע		j		ر ر	_	
0	none	none	none	none	location_region_ analysis	user.in_region
		2/22/2000				
	meters	13:11:01:118	.S.	22	sdi	user elevation
		2/22/2000		122° 18.424' W		-
2	degrees/minutes	13.11.01.118	0°.021'	47° 38.745' N,	sdi	user location
	-	2/22/2000		122° 18.43' W	i	•
2	degrees/minutes	13:11:04.023	,60°,0	47° 38.73' N,	gps	user location
consuming		*				
context clients					name	
number of	units	timestamp	uncertainty	value	context server	attribute name

//

						<u>.</u>	
context client table						attribute instance table	number of
	message handler				ر ر	attr	units
	me	;e)	;e)	(ə:	J		timestamp
		(reference)	(reference)	(reference)	FIG 6		uncertainty
	iame						value
	context client name		ne		-9/	-	context server
		location map	distance from home	region analysis			attribute name
		700	7	13	ĵ 3		

117 ,	76	کار ^ا	レフ14 FIG 7	L713	1 6712	1127	•
_	none	none	none	none	location_region_ analysis	user in region	/ 50
		2/22/2000		77	s di	usci cicvation	\$ 1
_	meters	811 10.11.81	5	22	301	neer elevation	
		2/22/2000		122° 18.424' W			705
2	degrees/minutes	13:11:01.118	0°.021'	47° 38.745' N,	ips	user location	
		2/22/2000		122° 18.43' W			20
2	degrees/minutes	13:11:04.023	,60°,0	47° 38.73' N,	gps	user location	
consuming				•			
context clients					name		
number of	units	timestamp	uncertainty	value	context server	attribute name	
attribute instance table /	attrit						

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						attn	attribute instance table	٠,
	attribute name	context server	value	uncertainty	timestamp	units	number of	
	•	name					context clients	
					•		consuming	
_ 	user location	gps	47° 38.73' N,	.60' 0	13:11:04.023	degrees/minutes	2	
10 E		5	122° 18.43' W		2/22/2000			
	user location	Sai	47° 38.745' N,	0°.021'	13:11:01.118	degrees/minutes	2	
100		-	122° 18.424' W		2/22/2000	•		
	user elevation	ins	22.25	S.	13:11:06.565	meters	·.	
903 /		· -		,	2/22/2000			,
`	v user in region	region analysis	none	none	none	none	_	_
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	167	767	2167		1267 x	١٩٠١	(2)	
	•		,	0 UH	•			

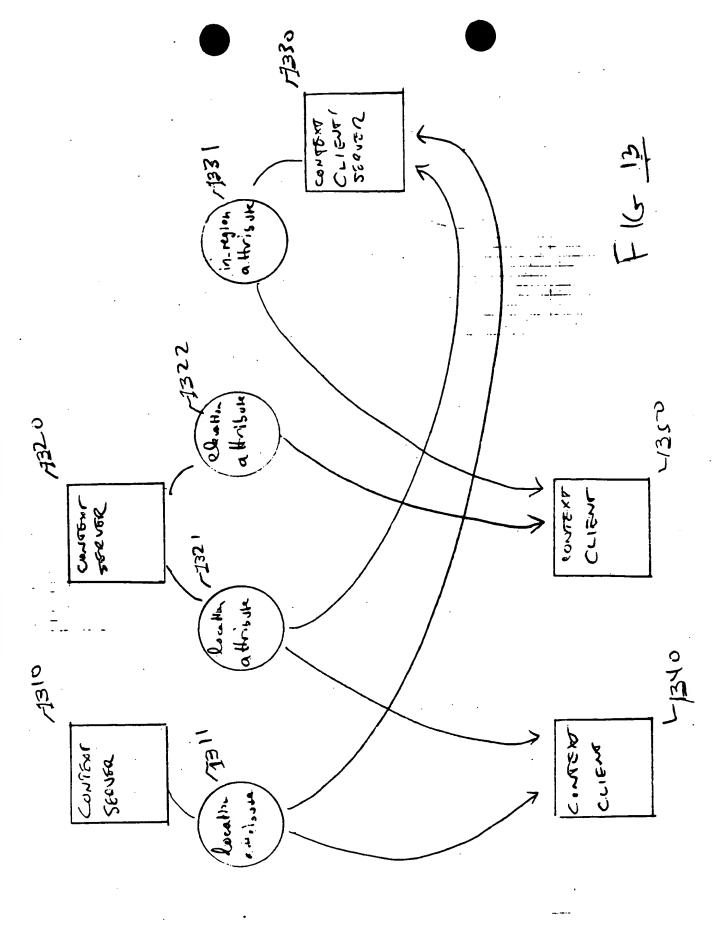
1000			
) aldes acisibaco	logical operator		٢ (١٥)
	comparison value	TRUE	4 (1815)
	second logical	none	13 L 1014 FIG 10
	first logical	user in region	2/
	condition name context client name	region analysis	21017 110
	condition name	ool in region true	101
		100	<u> </u>

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00)1	· ———			<u>ک</u>	
condition monitor table	stopped	2		x = J	
conditi	trigger handler reference	(reference)			2
	condition last evaluated	101 00 11 21	7/22/2000		
	frequency		30		
	· behavior		TRUE or	FALSE	113 FIG 11
	condition	name	in_region_true		L1112 L1113
	context client	name	regic	S	=
	condition	monitor name	region bounda	ry crossed	
				1	

1200					9	0	-
condition monitor table / 12 co	stopped		NAS.	, jc		01217 (1217	
condition	condition last trigger handler	reference					
	condition last	evaluated reference	101.02	13:11:59:101	7/22/2000	21215)
	Company	nednency		30		214 / 1515	
		behavior		TRUE or	FALSE	-1212 L1214	
		condition	name	inclinical manner in region true TRUE of	1		7.71
		context client	name	region analysi	- C	ر ا	
		condition	monitor name	monitor name	region Tooming	ry crossed	
			-		` '	1 5	

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attribute request table

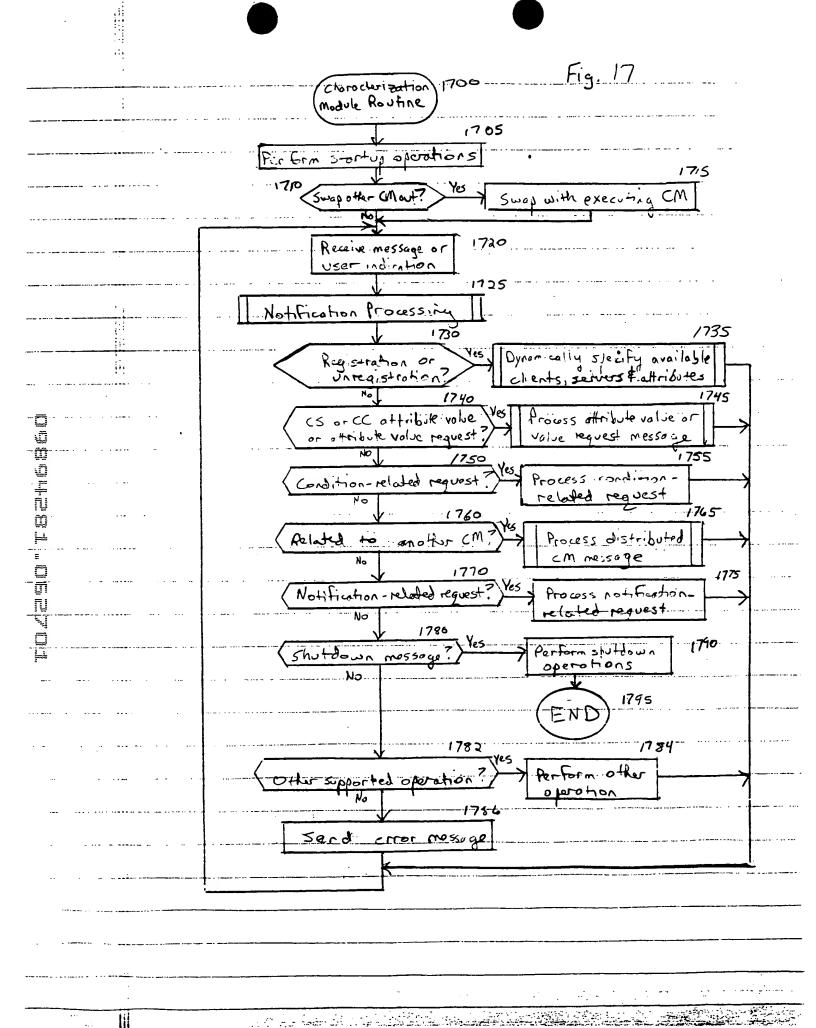
attribute name	context client name
~ user.location	distance_from_home
~ user.in_region	location_map
user.location [gps]	location_region_analysis
user.elevation	location_map
7411	Figure 14 7 1412

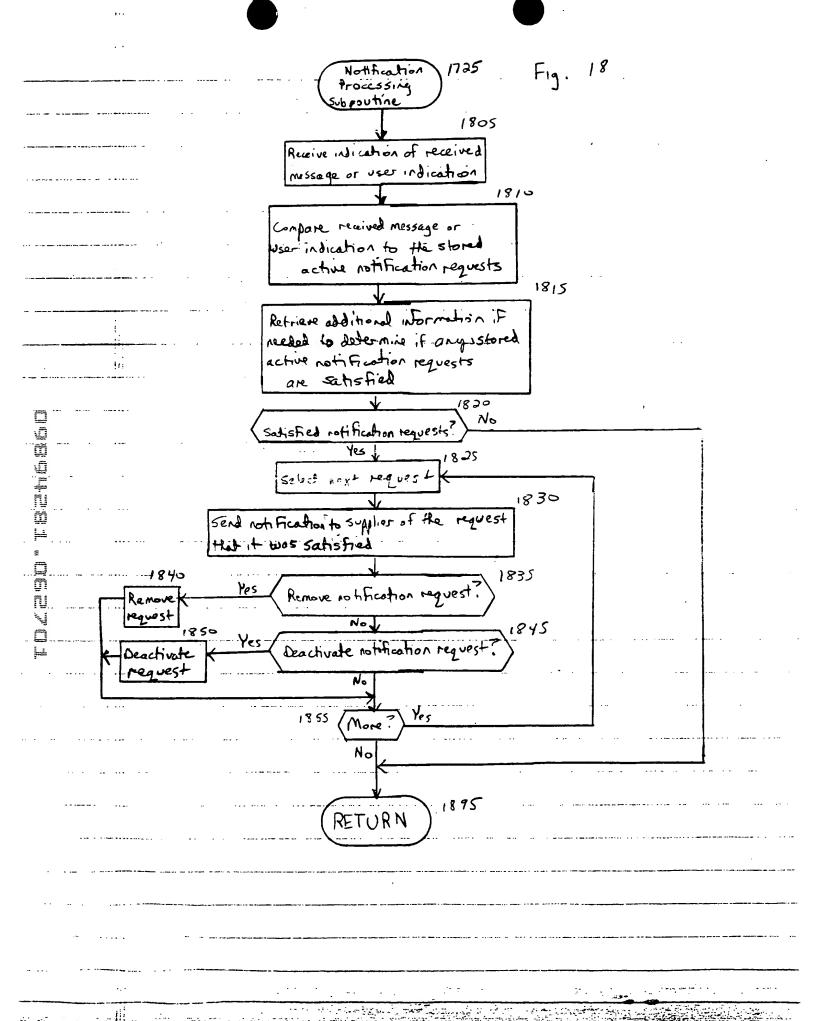
User.	Platform, (continued)
Desired privacy_level	CPU.
Interruptibility	Load Fig. 15
Speed	Speed 'J'
Direction	Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive_availability	Storage.
Tactile availability	Total_capacity
Manual availability	Used
Visual availability	Connectivity.
Oral availability	Connection_status
Auditory_availability	Connection_speed
Proximity. <item name="" or="" place=""></item>	Connection_type/device
Mood.	Connection_activity
Happiness	Power.
Sadness	Power source
	Power level
Anger Frustration	Environment.
Confusion	People.
	Nearest
Activity.	Number_present
Driving	Number close
Eating	Local.
Running	Time
Sleeping	Date
Talking	Temperature
Typing	Pressure
Walking	Wind speed
Location.	Wind direction
Place_name	Absolute humidity
Latitude	High forecast_temperature
Longitude	~
Altitude	Low_forecast_temperature
Room	People_present
Floor	Ambient_noise_level
Building	Ambient_light_level Days. <pre>previous or future>.</pre>
Address	
Street	High_temperature
City	Low temperature
County	Precipitation_type
State	Precipitation_amount
Country	Place. <place name="">. (same as Environment.Local)</place>
Postal_Code	Application.
Destination. (same as User.Location.)	Mail.
Physiology.	Available
Pulse	New_messages_waiting
Body_temperature	Messages_waiting_to_be_sent
Blood_pressure	Phone.
Respiration	Available
Person. <name id="" or="">. (same as User.)</name>	In_use
Platform.	On/off
UI.	Notification_mechanism
Oral_input_device_availability	Call_incoming
Manual_input_device_availability	Caller_ID
Tactile_output_device_availability	Sound_recorder.
Visual_output_device_availability	Available
Auditory_output_device_availability	Recording

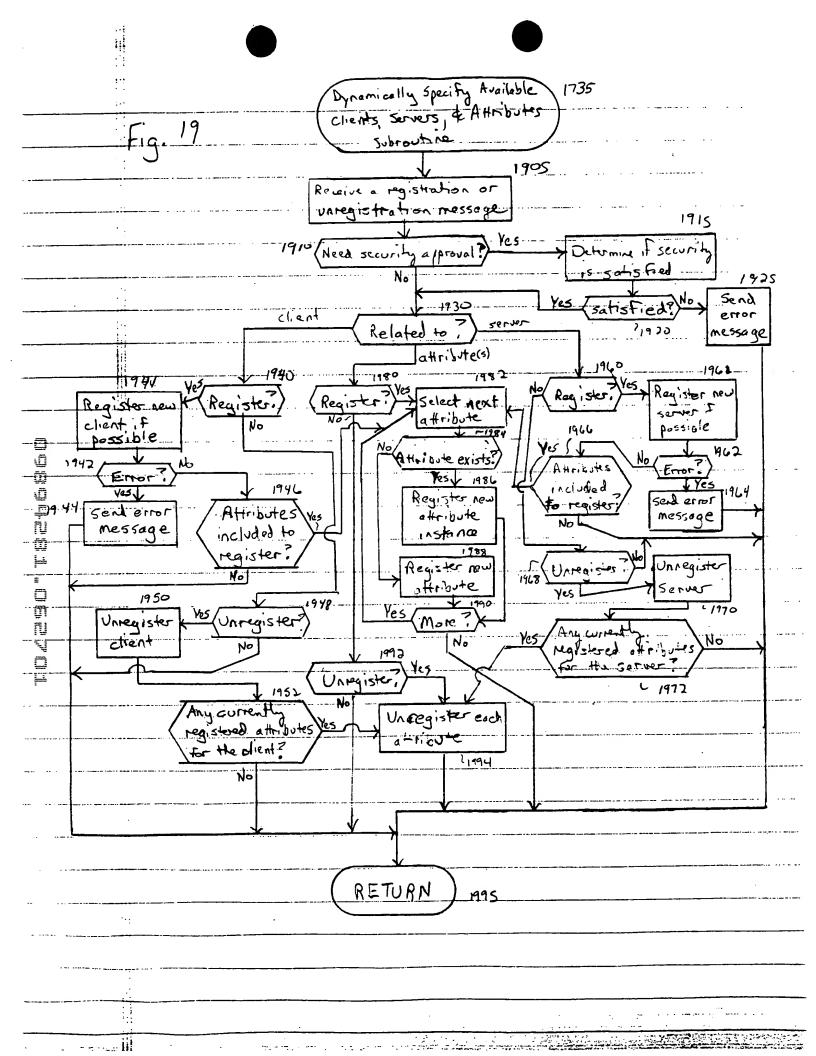
- 1) User Setting
 - a) Mental Context
 - i) Meaning
 - ii) Cognition
 - (1) Divided User Attention
 - (2) Task Switching
 - (3) Background Awareness
 - iii) Solitude
 - iv) Privacy
 - (1) Desired Privacy
 - (2) Perceived Privacy
 - v) Social Context
 - vi) Affect
 - b) Physical Situation
 - i) Body
 - (1) Biometrics
 - (2) Posture
 - (3) Motion
 - (4) Physical Encumberment
 - (a) Senses
 - (i) Eyes
 - (ii) Ears
 - (iii) Tactile
 - (iv) Hands
 - (v) Nose
 - (vi) Tongue
 - (b) Workload demands/effects
 - (c) Interaction with computer devices
 - (d) Interaction with people
 - (e) Physical Health
 - ii) Environment
 - (1) Time/Space
 - (2) Objects
 - (3) Persons
 - (a) Audience/Privacy Availability
 - (i) Scope of Disclosure
 - (ii) Hardware affinity for privacy
 - (iii) Privacy Indicator for User
 - (iv) Privacy Indicator for Public
 - (v) Watching Indicator
 - (vi) Being Observed Indicator
 - (4) Ambient Interference
 - (a) Visual
 - (b) Audio
 - (c) Tactile

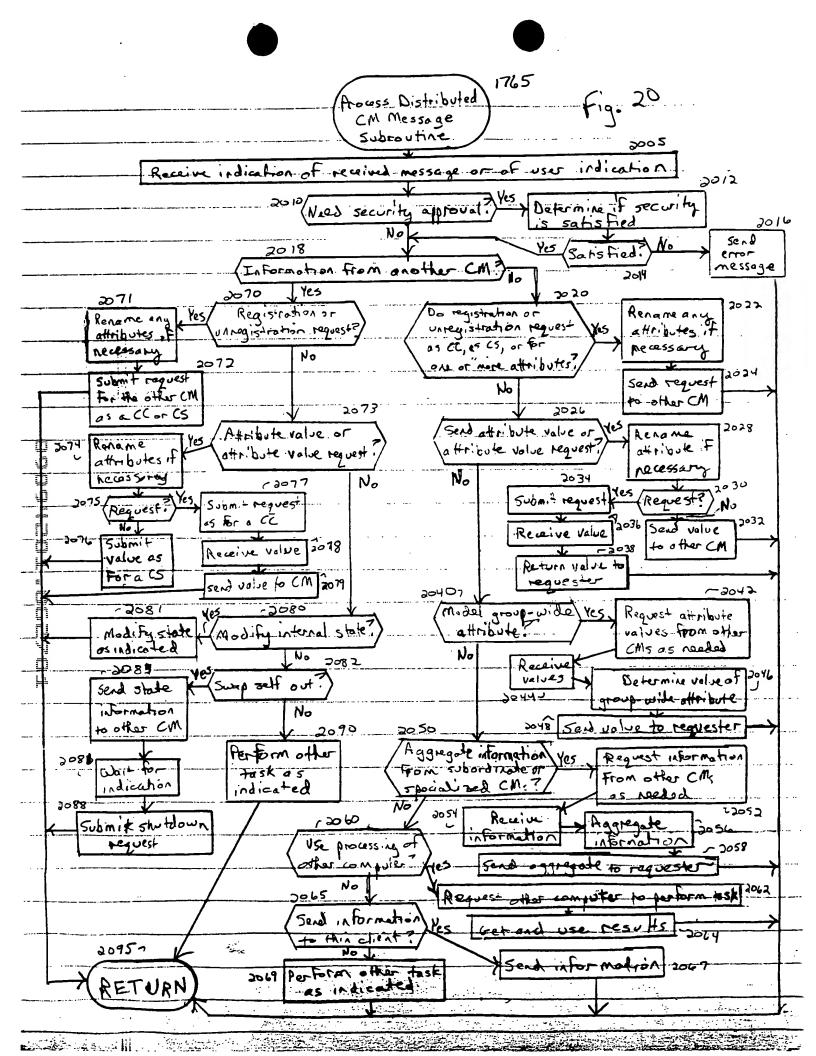
- 2) Computer
 - a) Power
 - b) Configuration
 - i) User Input Systems
 - (1) Hand/Haptic
 - (a) Kevboard/Keystrokes
 - (2) Voice/Audio
 - (3) Eye Tracking
 - (4) Cursors
 - (a) Axis
 - (b) Resolution
 - (i) Selection
 - (ii) Invocation
 - (c) Accelerators
 - ii) Output Systems
 - (1) Visual
 - (a) Resolution
 - (2) Audio
 - (a) Public/Private
 - (3) Haptic
 - iii) External Resources
 - (1) I/O devices
 - (2) Connectivity
 - c) Data
 - i) Quantity/State
 - ii) Urgency/Importance
 - (1) Use of Prominence
 - iii) Modality
 - iv) Sensitivity/Purpose
 - (1) Privacy Issues
 - (2) Use of Association
 - (3) Use of Safety
 - v) Source/Ownership
 - (1) Types
 - (a) User generated
 - (b) Other computers or people
 - (c) Sensor
 - (d) PC State
 - (2) Use of Association

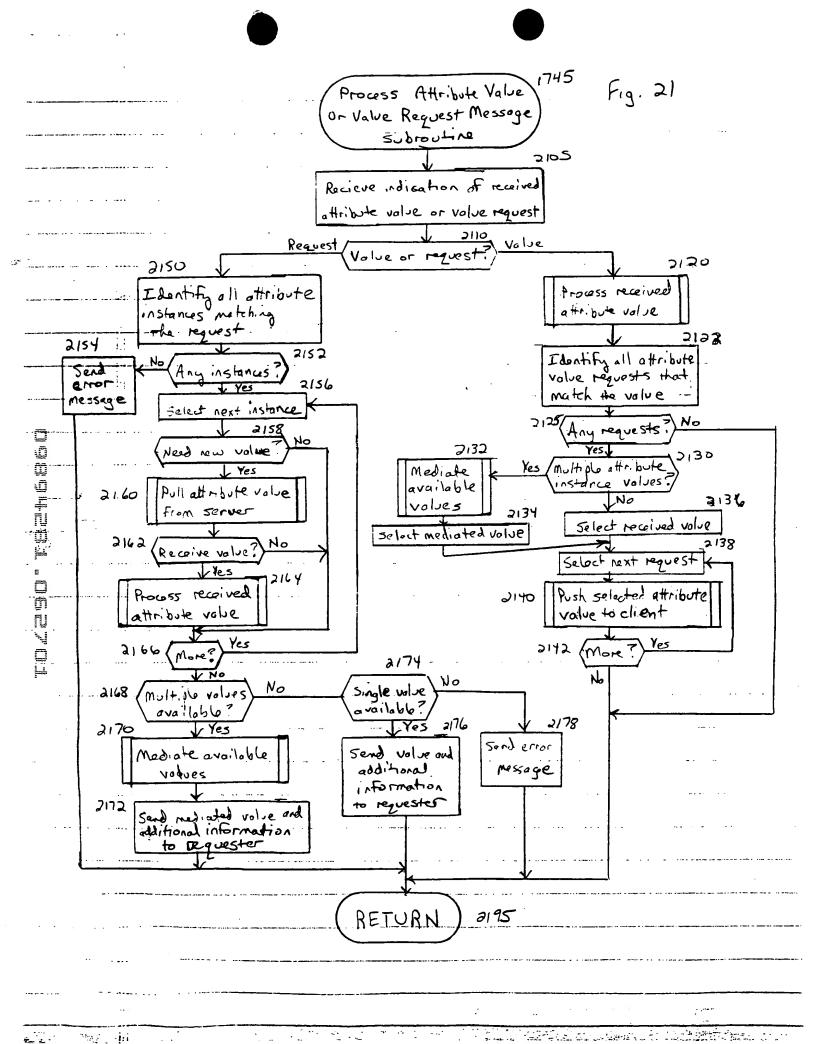
Fig. 16

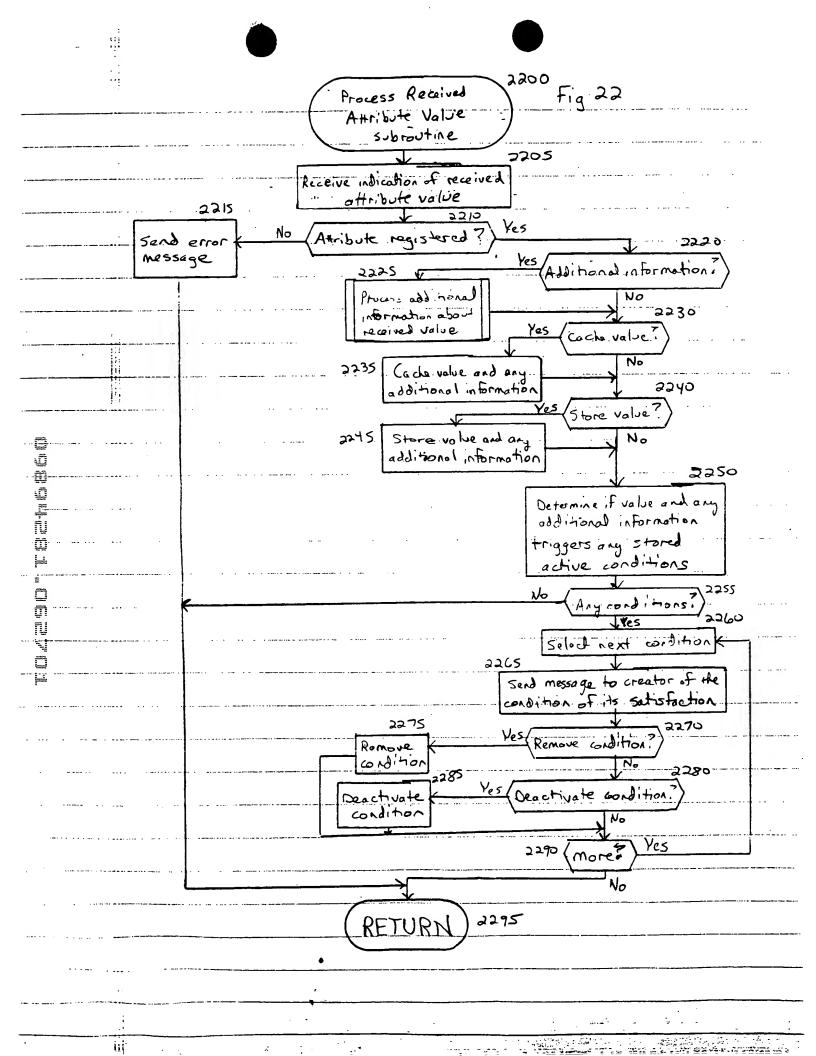


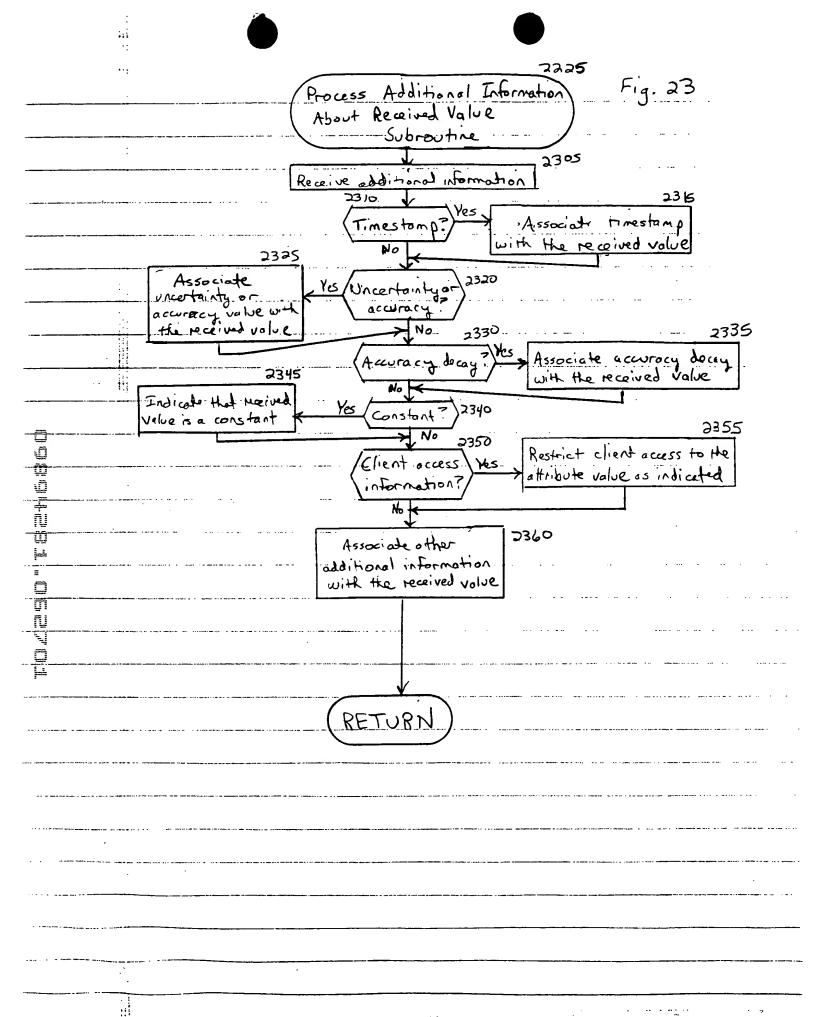


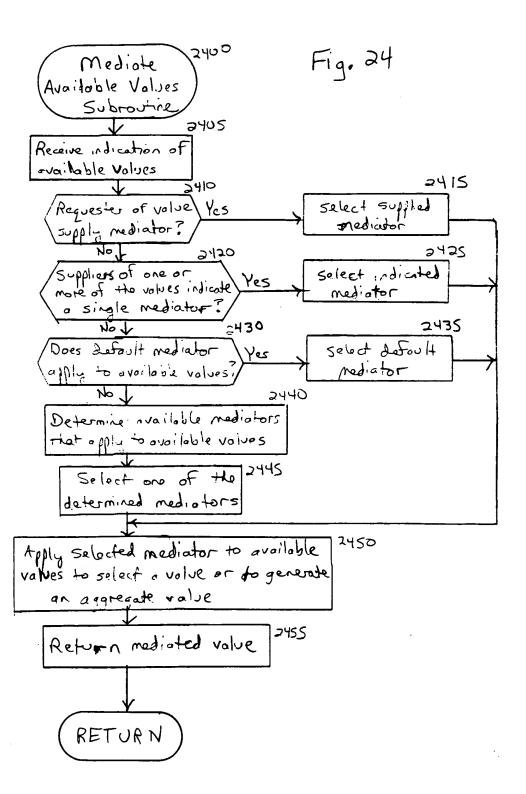


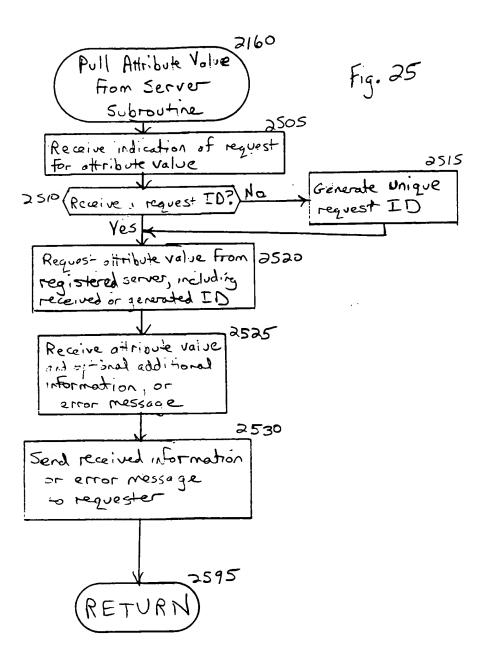












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